

**ENGINEERING/OPERATIONS COMMITTEE MEETING RECAP
JULY 14, 2011**

COMMITTEE MEMBERS PRESENT

Ed Mandich, Committee Chair
Jim Haselton, Committee Member Alternate

STAFF PRESENT

Don Chadd, General Manager
Hector Ruiz, District Engineer
Teresa Teichman, Secretary to the Board of Directors
Michael Perea, Special Projects Manager
Kris Hanberg, Wastewater Supervisor
Neil McKenna, Water Supervisor
Bob Beck, Maintenance Supervisor
Ben Adams, Engineering Intern

PUBLIC PRESENT

No members of the public were present.

CALL THE MEETING TO ORDER

Committee Chair Mandich called the Engineering/Operational Committee Meeting to order at 7:06 a.m.

VISITOR PARTICIPATION

There was no visitor participation

ORAL COMMUNICATION

There were no comments.

COMMITTEE MEMBER COMMENTS

There were no director comments

REPORT FROM THE GENERAL MANAGER

There were no comments from the General Manager

**ENGINEERING/OPERATIONAL COMMITTEE MEETING RECAP
JULY 14, 2011
PAGE 2**

PROJECT MANAGEMENT

ITEM NO. 1A) STATUS REPORT AND POSSIBLE ACTION RELATING TO STORM DAMAGE

Mr. Hector Ruiz, District Engineer, advised he is began to work with URS Corporation on Project WSP2, the 8-inch transmission line repair at Rose Creek Crossing. Mr. Ruiz stated FEMA has required environmental clearance for this project, primarily consisting of any required permits from the US Army Corp of Engineers, the Department of Fish and Game, and the Regional Water Quality Control Board. Mr. Ruiz anticipates a three month timeline to secure the necessary environmental permits.

Mr. Ruiz is waiting to receive formal notification from FEMA on the denial of Project WSP 6. Project WSP 6 is the repair of the 16-inch Raw Water Transmission Line that crosses Serrano Creek in the City of Lake Forest. Once the letter is received, Mr. Ruiz will compile the three technical memos and submit them to FEMA with a letter of appeal.

Discussion occurred relating to repair options and alternatives.

The Engineering/Operational Committee received the status update. Forward to the Board (Action Calendar).

ITEM NO. 1B) STATUS UPDATE RELATING TO BAKER WATER TREATMENT PLANT

Mr. Ruiz advised The Baker WTP Project Committee is scheduled to meet on July 14, 2011 to review the revised variance from RBF Consulting. RBF Consulting submitted a variance for additional costs related to the design including work for additional pipeline design, unforeseen design changes related to recent pothole investigations, and design of building that were to costly to retrofit for current seismic standards. Discussion occurred relating to the potential cost of the design variance.

Mr. Ruiz advised that the proposed variance has not been approved by other agencies.

Mr. Ruiz mentioned the staff report includes a schedule with a special board workshop on October, 2011 to discuss TCWD's continued participation in the project. The special workshop was added at the request of the board.

The Engineering/Operational Committee received the status update. No action taken.

ITEM NO. 1C) STATUS UPDATE AND POSSIBLE ACTION RELATING TO BROOKSEED/DOVE INTER-TIE

ENGINEERING/OPERATIONAL COMMITTEE MEETING RECAP
JULY 14, 2011
PAGE 3

Mr. Ruiz discussed the water operations department experience with maintaining water levels at Dove Reservoir during periods of peak demands. Mr. Ruiz presented a summary of alternatives evaluated and recommended proceeding with the Brookseed/Dove intertie. Mr. Ruiz mentioned that this project provides water reliability and emergency supply to the Dove Canyon area. Mr. Ruiz discussed additional benefits of the proposed intertie relating to scheduled reservoir maintenance, fire flow to the area surrounding the wastewater plant and a source of supply to supplement TCWD's reclaimed reservoir.

Mr. Ruiz advised the proposed intertie will primarily consist of an 8-inch pipeline with a pressure reducing station and valves at Dove Reservoir. Director Mandich inquired on the adequacy of an 8-inch and perhaps the need for a larger line. Mr. Ruiz mentioned that the final line size will be finalized during the design and that he will follow up on Director Mandich's inquiry during the design.

The proposed pipeline alignment would be along an existing fire service road and connection to an existing line at the Brookseed cul-de-sac, where approximately four private properties will be directly impacted. Preliminary projects are costs of \$400,000 are conservative and detail costs will be prepared during the design phase.

Mr. Chadd advised he has had recent discussion with the President's of the Dove Canyon Master Association and the Trabuco Highlands Community Association and it appears that both entities support the project.

Mr. Chadd advised the funding will come out of the established Water Reliability and Emergency Storage (WRES) Fund and not the General Fund.

Director Haselton commented the project will provide reliable emergency storage of potable water along with enhancement of fire suppression.

The Engineering/Operational Committee received the staff report. Forward to the Board. (Action Calendar).

**ITEM NO. 1D) STATUS UPDATE AND POSSIBLE ACTION RELATING TO
TRABUCO RESERVOIR PRESSURE ZONE EVALUATION**

Mr. Ruiz provided background information relating to line breaks in the Trabuco Highlands area. Mr. Ruiz discussed possible causes of such occurrences, including improper backfill material or premature failure of ductile iron pipe. Mr. Ruiz discussed the impact of pressure in the area and recommended the construction of two pressure reducing stations that would maintain adequate pressure while significantly reduce the amount of asphalt repair work caused by future line breaks.

Mr. Ruiz recommended moving forward with the design of two pressure reducing stations.

ENGINEERING/OPERATIONAL COMMITTEE MEETING RECAP
JULY 14, 2011
PAGE 3

The Engineering/Operational Committee received the staff report. Forward to the Board. (Action Calendar).

ITEM NO. 1E) STATUS UPDATES RELATING TO ON-GOING ENGINEERING PROJECTS

1. Golf Club Lift Station Upgrades/Rehabilitation

Mr. Ruiz advised the wastewater supervisor met with Southern California Edison to complete the paperwork for receipt of an energy rebate related to the recent pump replacement.

2. Shadow Rock Detention Basin Facility Project

Mr. Ruiz advised he has not received any information as it relates to funding for this project. Mr. Ruiz advised that work is on going with SCE as it relates to documents required for extending power to the site.

Mr. Chadd advised that the District's staff intern is conducting a flow study. The purpose of the flow study is to obtain real time flow during the dry season period.

3. Other Projects

Mr. Ruiz advised he is investigating the possibility of solar energy components at TCWD's treatment plants. Tours of the two facilities were provided to representatives from Clean and Company, a local firm, and Schneider Electric, a larger nationwide energy management company.

The Engineering/Operational Committee received the status updates. No action necessary.

ITEM 1F) STATUS UPDATES REGARDING ACTIVE DEVELOPMENTS

1. Skyridge – Standard Pacific Homes (85 DUs)

Mr. Ruiz advised the developer is seeking to move this project from County jurisdiction to the City of Mission Viejo. Mr. Ruiz advised PSOMAS restarted work this week to provide a draft Sub-Area Master Plan (SAMP) which is anticipated to be complete within

ENGINEERING/OPERATIONAL COMMITTEE MEETING RECAP
JULY 14, 2011
PAGE 5

one month. Discussion occurred relating to reservoir capacity and additional demands on the system.

2. Oaks at Trabuco

Mr. Ruiz advised there is no new information to report.

3. Fieldstone

Mr. Ruiz advised that water and sewer lines extending from the project site to the existing system were constructed. Construction of these sections plus an electrical line for SCE were done by the developer's contractor to the satisfaction of the District. This is currently under review by Staff.

4. Other Active Developments

Mr. Ruiz advised the project developer for Saddle Crest requested a proposal for a new SAMP. The new SAMP will be for approximately 65 homes and an on-site reservoir. Mr. Ruiz is working with Psomas to obtain a proposal for the SAMP.

Mr. Chadd advised he has been contacted by Mr. Robert Meyer as it relates to his Agreement with the District. Mr. Chadd advised the buy-in extension expires in August 2011 and Mr. Meyer is requesting an additional five year extension.

The Engineering/Operational Committee received the status update. No Action Required.

ITEM NO. 1G) WATER SYSTEM STATUS UPDATE

Mr. Neil McKenna, Water Supervisor, provided the June 2011 update.

Source Water Production

1. The water treatment plant production totaled 112 acre feet.
2. The Trabuco Creek Water Treatment Facility produced 118 acre feet.
3. The average daily demand was 7.3 acre feet, or 3.7 cfs.

ENGINEERING/OPERATIONAL COMMITTEE MEETING
JULY 14, 2011
PAGE 6

4. The demand for the District was 227 acre feet of which the Trabuco Creek Wells Facility provided 52%.

Projects and Repairs

1. Water Department personnel repaired a 1-inch water service line on Praire View in the lower Robinson Ranch Community.
2. Water Department personnel repaired an 8-inch water main on Silvertree Lane.
3. Water Department personnel repaired an 8-inch water main on Birdhollow in the Trabuco Highlands community.

Discussion occurred related to the level of water in the wells and the anticipated timeline the wells will continue to run at the current capacity.

The Engineering/Operational Committee received the status update. No action required.

ITEM NO. 1H) WASTEWATER SYSTEM STATUS UPDATE

Mr. Kris Hanberg, Wastewater Operator provided the June 2011 status update.

Robinson Ranch Wastewater Treatment Plant

1. The reclaimed water production totaled 58.7 acre feet.
2. The recycled water demand was 104 acre feet.
3. Dove Lake had 7.8 feet of freeboard.
4. The reclaimed water reservoir had 2.5 feet of freeboard.
5. The District pumped a total of 25.8 acre feet from Dove Lake.
6. The Dry Season Water Recovery Project produced 9.18 acre feet.
7. There was no water pumped to the Portola Basin.

Projects

1. District personnel is operating the wastewater treatment plant under Time of Use (TOU) from 12 noon to 6:00 pm. During TOU operation, electrical power use at the plant is significantly reduced. In years past, plant operators only operated TOU from noon to 4:00 pm. The extended operation to 6:00 pm will result in significant lower electrical operational costs.

Mr. Hanberg reported the Boy Scouts of America held their annual campout at O'Neill Park last week.

Mr. Hanberg provided the July 2011 Sewer System Quarterly Report.

The Engineering/Operational Committee received the status update. No action taken.

**ENGINEERING/OPERATIONAL COMMITTEE MEETING
JUNE 9, 2011
PAGE 6**

ITEM NO. 1I) JUNE 2011 OPERATIONAL REPORT REVIEW

The Committee reviewed the information provided. There were no anomalies to report.

The Engineering/Operational Committee received and filed the report. No action taken.

**ITEM NO. 1J) ENGINEERING/OPERATIONAL COMMITTEE MEETING
RECAP**

No changes were made to the Engineering/Operational recap.

The Engineering/Operational Committee recommended that the Board receive and file the June 9, 2011 Engineering/Operational Committee Meeting Recap. (Consent Calendar).

**ITEM NO. 1K) DISCUSSION AND POSSIBLE ACTION REGARDING THE FINES
IMPOSED BY THE SAN DIEGO REGIONAL WATER QUALITY
CONTROL BOARD ON THE SANTA MARGARITA WATER DISTRICT
RELATING TO THE 2010 SEWAGE SPILL**

Mr. Ruiz advised that District staff is in the process of obtaining more detailed information from SMWD as it relates to fines and repair costs for the 2010 sewage spill. The assessment of fines levied from the San Diego Regional Water Quality Control Board (SDRWQCB) will be considered by the RWQCB on August 10, 2011 as stated in the attached Notice of Proposed

ENGINEERING/OPERATIONAL COMMITTEE MEETING
JUNE 9, 2011
PAGE 7

Settlement and Enforcement Action. In addition to the fine, SMWD is also submitting invoices for costs related to the District's capacity share for the repair of the force main and ongoing mitigation work.

Mr. Ruiz advised TCWD's percentage of costs is unknown at this time. Mr. Ruiz has relayed TCWD's concerns to SMWD as it relates to the amount of TCWD flow in the line at the time of the failure along with mitigation and penalty costs responsibilities.

Mr. Ruiz advised IRWD is preparing a legal analysis of the sewer agreement between SMWD, TCWD, and IRWD as it relates this facility.

Discussion occurred relating to TCWD's response time to divert flow once TCWD was notified, the possibility of sewage reaching the Pacific Ocean, and fines assessed relating to posting violations.

Recommended Action: The Committee received the information. No action required.

ITEM NO. 1L) OTHER MATTERS/REPORTS

Mr. Chadd advised there are no other matters to report or discuss

ADJOURNMENT

Committee Chair Mandich adjourned the June 9, 2011 Engineering/Operational Committee Meeting at 8:06 a.m.